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GORDON RESEARCH CONFERENCES frontiers of science

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2001 GORDON RESEARCH CONFERENCE

on Electrochemistry

FINAL PROGRESS REPORT

AFOSR F49620-01-1-0097

The Gordon Research Conference (GRC) on Electrochemistry was held at Holiday Inn, Ventura, CA, January 14-19, 2001. The conference was well attended with 121 participants (list enclosed). The attendees represented the spectrum of endeavor in this field coming from academia, industry, and government laboratories, both US and foreign scientists, senior researchers, young investigators, and students.

In designing the formal speakers program, emphasis was placed on current unpublished research and discussion of the future target areas in this field. There was a conscious effort to stimulate lively discussion about the key issues in the field today. Time for formal presentations was limited in the interest of group discussions. In order that more scientists could communicate their most recent results, poster presentation time was scheduled. In addition to these formal interactions, "free time" was scheduled to allow informal discussions. Such discussions are fostering new collaborations and joint efforts in the field (program enclosed).

I want to personally thank you for your support of this Conference. As you know, in the interest of promoting the presentation of unpublished and frontier-breaking research, Gordon Research Conferences does not permit publication of meeting proceedings. If you wish any further details, please feel free to contact me. Thank you.

Debra Rolison Conference Chair

Electrochemistry

Our theme: If Charge Moves, It's Electrochemistry!

14-19 January 2001 Holiday Inn Ventura, CA

Chair: Debra Rolison [Naval Research Laboratory] Chair of Vice: Henry White [University of Utah]

14 January 2001

Getting to Know You

Sun p.m.

1600-1800 Chair's Reception for all Attendees

1800

Dinner

14 January 2001 Sun p.m.

Energy Transduction via Biological Charge in Motion

Discussion Leader: Tayhas Palmore [Brown University]

1930-2100 Carlo Montemagno [Cornell University]

Engineering Life into Nanofabricated Systems

2100-2300 Chair's Reception: Part Deux

15 January 2001 Mon a.m.

"Field" Day

Discussion Leader: Johna Leddy [University of Iowa]

0900-1000 Nicholas Leventis [University Missouri-Rolla]

Magnetohydrodynamic Voltammetry with Disk Millielectrodes

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1020-1120 Coffee Break/Poster Session I

1120-1155 Mike Elliott [Colorado State University]

Effects of Magnetic Fields on Photogenerated Charge-Separated States of Donor-Chromophore-Acceptor Supramolecular Assemblies

1155-1230 Ralph Nuzzo [University of Illinois - Urbana]

Driven Assembly of Electroactive Microstructures

1700-1800 Social Hour/Poster Session I

15 January 2001 Mon p.m.

"Field" Day

Discussion Leader: Carol Korzeniewski [Texas Tech]

1930-2030 Geri Richmond [University of Oregon]

Hydrogen Bonding at Water Surfaces: Some Surprisingly Weak Interactions

2030-2130 Eric Stuve [University of Washington]

lonization of Water in High Electric Fields at and near a Metal (Electrode) Surface

16 January 2001

Tues a.m.

Electrochemistry / Materials

Discussion Leader: Nick Abbott [University of Wisconsin - Madison]

0900-1000 George Whitesides [Harvard University]

Electrochemical Generation of Functional Structures

1000-1110 Coffee Break/Poster Session II

1110-1150 Rebecca Jackman [MIT]

Microfluidic Reactors for Electrosynthesis

1150-1230 Werner Kuhr [UC-Riverside]

Electrochemically Based Computer Memories

1700-1800 Social Hour/Poster Session II

16 January 2001 Tues p.m.

Electrochemistry / Materials

Discussion Leader: Dick Buck [UNC-CH]

1930-2010 Eric Bakker [Auburn University]

What's New with Ions at Electrified Interfaces?

2010-2050 Sossina Haile [Cal Tech]

The Search for Improved Solid-State Proton Conductors

2050-2130 Dick Crooks [Texas A&M] Single File in a Single Pore

17 January 2001 Wed a.m.

Nanoelectronics and Electrochemistry

Discussion Leader: Dan Feldheim [NCSU]

0900-1000 Mark Ratner [Northwestern University]

The Theory of Electron and Charge Transport in Nanoscopic Wires

1000-1110 Coffee Break/Poster Session III

1110-1150 Tom Mallouk [Penn State University]

Nanowires: Synthesis, Characterization, and Assembly

1150-1230 Cliff Kubiak [UC-San Diego]

Chemically Gating Current Flow Through Molecular Nanostructures

1700-1800 Social Hour/Poster Session III

17 January 2001 Wed p.m.

Open Session/Mayhem

Discussion Leader: Henry White [University of Utah]

1930-2130 10-min talks from selected attendees

18 January 2001 Home Stretch Thu a.m.

New Efforts in Electrochemical Power Sources

Discussion Leader: Kathy Ayers [Eveready Battery Company]

0900-1000 Marc Koper [Eindhoven University]

Theoretical and Experimental Investigations of the Electrooxidation of Fuels

1000-1110 Coffee Break/Poster Session IV

1110-1150 Viola Birss [University of Calgary]

Sol-Gel-Derived Ion-Insertion Materials for Batteries And Ultracapacitors

1150-1230 Robert Savinell [Case Western Reserve University]

Microfabricated Miniature Fuel Cells

1700-1800 Social Hour/Poster Session IV

18 January 2001 Home Stretch

Thu p.m.

Electrochemistry in Unusual Media

Discussion Leader: John Turner [NREL]

1930-2020 Daren Caruana [University College, London]

Electrochemistry in Flames

2020-2100 Michael McKubre [SRI]

Electrochemical Effects in Aircraft Fuel Tank Explosions

2130-0600 WETS PARTY!!!!

















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ELECTROCHEMISTRY

Holiday Inn, Ventura, CA (14-Jan-01) - (19-Jan-01)

NOTE: Receipt of Application does not guarantee acceptance to a Conference. Applications are reviewed by the Conference Chair. If the Chair approves your application, you become **Accepted**, and a registration packet will be mailed immediately. Please allow 3-5 days for your registration to reach you by mail once your name appears. When your registration packet has been received back in our office, you become **Registered**.

Only those who have been Accepted or Registered will have their names listed below. Names of people who have only applied and have yet to be accepted will NOT appear.

		Darticipation	Status
Name	Organization	Participation	
NICHOLAS L ABBOTT	UNIVERSITY OF WISCONSIN	Discussion Leader	Registered
HECTOR ABRUNA	CORNELL UNIVERSITY	Attendee	Registered
NEAL ARMSTRONG	UNIVERSITY OF ARIZONA	Attendee	Registered
KATHERINE E AYERS	EVEREADY BATTERY COMPANY (ENERGIZER)	Discussion Leader	Registered
WENDY S BAKER	TEXAS A&M UNIVERSITY	Poster Presenter	Registered
ERIC BAKKER	AUBURN UNIVERSITY	Speaker	Registered
SOLOMON B BASAME	UNIVERSITY OF NEW MEXICO	Poster Presenter	Registered
MEKKI BAYACHOU	CLEVELAND STATE UNIVERSITY	Attendee	Registered
VIOLA I BIRSS	UNIVERSITY OF CALGARY	Speaker	Registered
ANNA BRAJTER-TOTH	UNIVERSITY OF FLORIDA	Attendee	Registered
SAMUEL E BUAH	UNIVERSITY OF CAPE COAST, GHANA	Attendee	Accepted
RICHARD P BUCK		Discussion Leader	Registered
JAMES D BURGESS	CASE WESTERN RESERVE UNIVERSITY	Attendee	Registered
PAUL R BURGMAYER	BETZDEARBORN	Attendee	Registered
DANIEL A BUTTRY	UNIVERSITY OF WYOMING	Attendee	Registered
HARLAN J BYKER	PLEOTINT, LLC	Attendee	Registered
RICHARD T CARLIN	OFFICE OF NAVAL RESEARCH	Attendee	Registered
DAREN J CARUANA	UNIVERSITY COLLEGE, LONDON	Speaker	Registered
SHAOWEI CHEN	SOUTHERN ILLINOIS UNIVERSITY	Poster Presenter	Registered
W. VES CHILDS	3M	Attendee	Registered
MALGORZATA CISZKOWSKA	BROOKLYN COLLEGE, CUNY	Attendee	Registered
DAVID CLIFFEL	VANDERBILT UNIVERSITY	Poster Presenter	Registered
MARYANNE M COLLINSON	KANSAS STATE UNIVERSITY	Poster Presenter	Registered
STEPHEN E CREAGER	CLEMSON UNIVERSITY	Poster Presenter	Registered
RICHARD M CROOKS	TEXAS A&M UNIVERSITY	Speaker	Registered
XIAOJUN DANG	NORTHWESTERN UNIVERSITY	Poster Presenter	Registered
	UNIVERSITY OF ARIZONA	Poster Presenter	Registered
CARRIE L DONLEY	UNIVERSITY OF CALIFORNIA, LOS ANGELES	Attendee	Registered
BRUCE DUNN	COLORADO STATE UNIVERSITY	Speaker	Registered
C. MICHAEL ELLIOTT	UNIVERSITY OF DELAWARE	Attendee	Registered
DENNIS H EVANS	PENN STATE UNIVERSITY	Attendee	Registered
ANDREW G EWING	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE-CNRS	Poster Presenter	Registered
FRED FAVIER	BROOKHAVEN NATIONAL LABORATORY	Attendee	Registered
STEPHEN W FELDBERG	NORTH CAROLINA STATE UNIVERSITY	Discussion Leader	Registered
DAN L FELDHEIM	DUBLIN CITY UNIVERSITY	Attendee	Registered
ROBERT J FORSTER	AIR PRODUCTS & CHEMICALS, INC.	Attendee	Registered
XIAOPING GAO	BOSTON UNIVERSITY	Poster Presenter	Registered
ROSINA M GEORGIADIS	CALIFORNIA INSTITUTE OF TECHNOLOGY	Speaker	Registered
SOSSINA M HAILE		Poster Presenter	Registered
SUSAN M HENDRICKSON	DAVIDSON COLLEGE	Poster Presenter	Registered
JOCELYN F HICKS	UNC-CHAPEL HILL UNIVERSITY OF VIRGINIA	Poster Presenter	Registered
ANDREW C HILLIER	KOREA ADVANCED INSTITUTE OF SCIENCE & TECHNOLOGY	Poster Presenter	Registered
SEONGPIL HWANG		Speaker	Registered
REBECCA J JACKMAN	MIT	Poster Presenter	Registered
JIRI (ART) JANATA	GEORGIA INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
GREGORY JERKIEWICZ	UNIVERSITE DE SHERBROOKE	Poster Presenter	Registered
MICHAEL J JOHNSON	UNIVERSITY OF CALIFORNIA, BERKELEY	Poster Presenter	Registered
PETER T KISSINGER	BIOANALYTICAL SYSTEMS, INC.	Poster Presenter	Registered
VLADIMIR KOMANICKY	UNIVERSITY OF CALIFORNIA, DAVIS	Speaker	Registered
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